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# Agricultural Libraries Information Notes



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photos: J. Swab

## EEO & Cultural Heritage Programs in FY92



Among the cultural heritage and EEO programs and exhibits at NAL or co-sponsored by NAL during FY 1992 were events pictured here:

(above) The Whittier Chorus performs for Black History Month.

(left) Piscataway dancers at the Native American Heritage Month Program.

(below) Part of the exhibit of oriental art works, crafts, textiles, and special utensils for Asian/Pacific American Heritage Month.

For more on these EEO and Cultural Heritage programs see pages 17-21, and the last page.

For Contents of this issue of ALIN, see the last page.





## Technology Applications

### NALnet

by Bill Feidt

Head, Library Automation Branch  
Information Systems Division, NAL

The NAL computer network, known as NALnet, is an outgrowth of the N.C. State Text Transmission Project. NAL originally obtained its high speed connection to the Internet as part of that project. Until earlier this year, our network connection was used mainly to transmit scanned page image files in response to inter-library loan requests. Even today, NAL staff are mainly using an Agricultural Research Service VAX computer to receive and send their Internet electronic mail, but we're working hard to change that.

In 1991 we decided to investigate the possibility of making greater use of our connection. As part of a cooperative agreement with Iowa State University, ISU staff visited NAL, evaluated our network environment, and suggested some concrete steps we could take to enhance our capabilities. Since then we have been very busy gearing up in three general areas: hardware, staff, and training.

#### Hardware

One of the highest priority items suggested by Iowa State was that NAL move its high-speed, dedicated telephone connection to the Internet from the fifth floor staff office where it was then terminated to the computer room on the ground floor. The care and feeding of the equipment associated with such a connection is much more easily and appropriately handled by computer operators located in a computer room environment. This was accomplished in March 1992.

At the same time, we transitioned to a fiber optic backbone wiring system that connects the computer room, third floor, and fifth floor through wire concentrators. The backbone will be expanded to other parts of the building as needed. PCs and other terminals are connected to the nearest wire concentrator via unshielded twisted pair wire (very similar to the wire used to connect your telephone to a wall jack). The new architecture will greatly facilitate troubleshooting and network maintenance and was chosen mainly with those points in mind. We're currently running 10 megabits per second (standard ethernet speed) over NALnet, but expect to transition fairly easily to the 100 megabit fiber-optic data architecture (known as FDDI) when that becomes necessary.

Also added to the computer room was a Sun SPARCstation 2 workstation with 32 megabytes of main

memory and 1.34 gigabytes of disk storage. This workstation will provide mail service for NAL staff. In addition, it will provide domain-name service (network address service) for our network Internet connection. International standard 9,600 bit-per-second modems have been installed to provide dial-up telephone access for staff not initially hard-wired onto the network.

#### Staff

One of the biggest challenges we faced in trying to enhance our network capabilities was not having staff with appropriate training and experience. We took three steps to deal with this problem. First, we sought help from others with more experience than ourselves. The Extension Service provided us part-time access to the services of their most knowledgeable network technical staffer. With their help we were able to bring the NAL system to a point where we could begin to evaluate and test such things as mail software and modem connections while we were trying to hire appropriate staff. Second, we began to train our present staff in some of the network-critical building blocks such as C programming language and UNIX operating system. Finally, we created a Networking Unit within the Library Automation Branch. We currently have one journeyman-level systems analyst assigned to the Unit and expect shortly to have a highly skilled networker to head it.

#### Training

Recognizing the importance of providing end-user training and support in the use of the network, we asked our training staff to take on the challenge of providing network training for NAL network users. So far, we have offered two separate classes. One focused on the use of electronic mail on the ARS VAX computer on which most NAL Internet users currently have accounts. The second dealt more broadly with the use of the network to transfer files (File Transfer Protocol, or FTP as it is commonly known) and run sessions on remote computers (TELNET). The classes have been offered a number of times and the sessions have been very well received.

In addition, we have hired a full time network end-user support staffer. He will be called upon to field and respond to end-user requests for assistance and information, create appropriate written and online documentation, work with programming staff to develop end-user interfaces, and stay abreast of new Internet information system developments.

#### Challenges for the Future

We expect to be very busy over the next few months gearing up to provide full Internet access to NAL network users. We hope to begin transitioning some staff before the end of calendar year 1992. Also high on our priority list is the extension of NALnet throughout the NAL building. A hard-wired connection will provide NAL staff with desktop access at 10 megabit (ethernet) throughput when communicating within the building and 1.544 megabit (T1) speed when accessing services outside the building. As we gain more experience and expertise, we will begin to provide network information services, especially those relating to agriculture, for both NAL staff, as well as other network users.





# Home Landscaping CD-ROM

## Developed by NAL

Homeowners planning to do some landscaping in the near future may first want to take a look at a new CD-ROM developed by the National Agricultural Library. The disc contains a wealth of information on do-it-yourself landscaping, including 24 landscaping designs to cover just about any yard size and characteristic.

Called "Plant It!-CD," the disc was produced by NAL, the



The pilot **Plant It!-CD** disc with red rose, green leaves, and blue type. The final distribution and sale disc will have the hyphen in the correct place or it will be omitted altogether. This photo is reduced to about 70% of the original.

University of Florida Institute for Food and Agricultural Sciences (IFAS), and the Michigan State University Cooperative Extension Service. It is an interactive multimedia CD-ROM containing information on which plants grow best in the various climate zones of the United States. Nearly 1,000 plants are covered.

The disc also includes 1,000 full-screen images of plants in 256 colors and both VGA high resolution (150K) and low resolution (50K), an audio introduction and guide to the correct pronunciation of the scientific name for each plant, 600 pages of plant descriptions, and the 24 landscape designs (including 11 herb garden designs) that can be printed out on a laser printer. The complete texts of 166 Cooperative Extension Service and NAL publications and 13 *Quick Bibliographies* related to landscaping and horticulture are also on the disc.

"Many people today enjoy home gardening and do-it-yourself landscaping," said Pamela Mason, NAL "Plant It!-CD" project manager. "To assist these folks, we gathered the wealth of materials available on the subject at NAL and other sources and put it on a CD-ROM that is easy and quick to use."

The disc has two different interfaces: NAL's interactive **PlantExpert Advisor** requires Microsoft Windows Version 3.0 or 3.1. The **PlantExpert Advisor**, developed using "KnowledgePro" authoring software, is also an advisory system on searching and plant selection which provided user feedback on search results. The **Plant Selector** is the Florida-developed (multimedia interface) plant search software which accesses the database in an unaided search.

The disc was recently released to two hundred land-grant universities and Cooperative Extension Service offices nationwide for evaluation purposes. Home landscapers can use the disc at these locations. A final product is expected to be available for sale by IFAS in January, 1993. (Contact: Dr. Dennis Watson, Bldg. 130, Room 203, Gainesville, FL 32611; Telephone: 904-392-7853; Internet: [watson@gnv.ifas.ufl.edu](mailto:watson@gnv.ifas.ufl.edu))

In an effort to make its valuable collection of agricultural information more accessible to researchers, farmers and the general public, in recent years NAL has put large sections of its collection on CD-ROMs and given copies of those discs to land-grant university libraries and other organizations throughout the world. To date, discs cover the subjects of aquaculture, acid rain, Agent Orange, agronomy, food and science, food irradiation, and the research of George Washington Carver.

For additional information contact:

*National Agricultural Library*

*Attn: Pamela Mason*

*Database Administration Branch, 5th Floor  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*

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photo: J. Swab

Pamela Mason (seated), NAL's project manager of the **Plant-It!-CD** and author of much of its contents, demonstrates the disc to participants at the USAIN Conference in Minneapolis in the fall of 1991.

# NATDP and ASA Produce Agronomy Journal CD-ROM

by Judith A. Zidar  
Information Systems Division, NAL

A CD-ROM (compact disc-read only memory) containing the *Agronomy Journal*, Volumes 1-16, from 1907 through 1924, has been produced by the National Agricultural Library as the first product under the National Agricultural Text Digitizing Program (NATDP). The disc was produced with assistance from the American Society of Agronomy (ASA).

In addition to page images for the 16 volumes, the *Agronomy Journal* CD includes article-level bibliographic records created by NAL's indexing staff. These records allow for quick searching and accessing of the images on the disc. The retrieval software, *Windows Personal Librarian* from Personal Library Software of Rockville, MD, is also included on the disc.

To use the CD-ROM, a user's computer must have the following:

- MS-DOS 3.3 or higher
- MS-Windows 3.0 or 3.1
- MS-DOS CD-ROM Extensions 2.0 or higher
- Mouse or other pointing device
- A minimum of 2 MB of extended memory (although 4 MB or more is recommended)
- 4 MB free hard disk space

To run efficiently, the computer should be an 80386 or faster. Any monitor and laser printer compatible with MS-Windows 3.x can be used to display and print the images.

Pamela Andre, Associate Director for Automation, NAL, stated that NATDP employs the latest electronic scanning, storage, and retrieval technology to increase access to the valuable collection of agricultural materials being maintained and made accessible by NAL. "Putting materials like the *Agronomy Journal* on CD-ROM improves the availability of agricultural knowledge," she said. "With this technology, researchers can access thousands of pages of material from one small compact disc while sitting at a computer terminal."

Andre indicated that NAL gave copies of the *Agronomy Journal* disc to the agricultural libraries of land-grant and 1890 universities throughout the United States. "The disc adds this valuable and rare collection of agronomy literature to each of these university libraries, permitting students and researchers easily to access material that was once available at just a very few institutions," she said.

NATDP has begun scanning images from the next 8 volumes of the *Agronomy Journal*, and expects eventually to put the entire journal on CD-ROM. NAL hopes that this will serve as a model for digitizing other professional agricultural journals, especially older volumes printed on paper that is rapidly deteriorating.

Other discs are in the works. *Aquaculture II* is now being pre-mastered, and is expected to be available in November

1992. Papers and letters of George Washington Carver were scanned from Tuskegee University's microfilm collection; the disc will be ready in January 1993. Thereafter NAL plans a disc containing reference works on water quality. These products will be made widely available to the agricultural community for little or no cost.

NATDP became a fully operational program in 1992. Discs issued previously had been pilot discs for testing and evaluation of hardware, software, and procedures. Under the leadership of the United States Agricultural Information Network, NATDP will continue its mission of digitizing and distributing agricultural publications, and serving as a resource on optical technology for the agricultural community.

NAL would like to take this opportunity to thank the 45 land-grant libraries and the Cargill Information Center that participated in the pilot project. They have supported NATDP not only financially, but also with their time, energy, and enthusiasm. NAL salutes them.

Additional copies of the *Agronomy Journal* disc can be purchased from the American Society of Agronomy, 677 South Segoe Road, Madison, WI 53711 (or via Fax: 608-273-2021), for \$25.00 per disc.

For additional information contact Judith Zidar at (301) 504-6813 [TTY: (301) 504-6856] or write to:

National Agricultural Library  
Attn: Judith Zidar, NATDP Coordinator  
Information Systems Division, 5th Floor  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351



photo: J. Swab

Judith Zidar presented the *Agronomy Journal* CD-ROM at the recent AGRILIT Workshop held at NAL.

## Correction

On page 8 of the July/August *ALIN*, Vol. 18, Nos. 7/8, in the article titled "NAL Increases Dramatically the Number of Abstracts in AGRICOLA" the statistics reported were for the period since October 1991 (not 1992).



## IAALD Symposium on Advances in Information Technology Available

The papers presented at the *IAALD Symposium on Advances in Information Technology*, September 16-20, 1991, are now available for purchase. The volume contains 19 full papers ranging from discussions of new CD-ROM products to initiatives in the United States and Europe about information delivery. The volume includes a full author and subject index. The price of the volume is US\$30 plus US\$5 for shipping and handling in North America and US\$10 shipping and handling for everywhere else. **PREPAYMENT IS REQUIRED.** For more information contact:

A. P. Powell  
Editor—IAALD  
3755 Leestown Road  
Lexington, KY 40511, USA

Prior to his appointment, Dr. Acker was administrator of USDA's Foreign Agricultural Service (FAS) and of the Office of International Cooperation and Development (OICD). He was appointed administrator of OICD in February of 1990 and of FAS in January of 1991.

"Duane has done a superb job as administrator of FAS and OICD," Secretary Madigan said. "With his exceptional leadership qualities and his extensive experience in agricultural research and university administration, I know he will be successful with his new responsibilities as head of Science and Education."

Before joining USDA, Dr. Acker was director and then assistant to the administrator for food and agriculture at the U.S. Agency for International Development from 1986 to January 1990.

Dr. Acker served as president of Kansas State University from 1975 to 1986. Previously he had been the associate dean of agriculture for instruction at Kansas State, dean of agriculture and biological sciences and director of extension and the experiment station at South Dakota State University, and vice-chancellor for agriculture and natural resources at the University of Nebraska. Dr. Acker worked as a county extension 4-H agent during the summer of 1950. He was an animal science instructor at Oklahoma State University from 1953 to 1955 and at Iowa State University from 1955 to 1962.



USDA photo

Dr. Duane Acker

### News Notes

## Acker Visits NAL

On July 22, Dr. Duane Acker made his first visit to NAL as the new Assistant Secretary of Agriculture for Science and Education. He had been nominated to the post by President George Bush in March, confirmed by the U.S. Senate on June 9, and sworn in by Secretary of Agriculture Edward Madigan on June 10. He renewed his acquaintance with the Library from his new point of view, and concentrated on new developments since his previous visits. One of the highlights was a demonstration of the databases being developed by NAL's Plant Genome Data and Information Center.

As assistant secretary, Dr. Acker oversees four U.S. Department of Agriculture agencies responsible for agricultural research and education involving production and use of animals and plants, development of new products, and the use and conservation of soil, water, forest, and air resources. Those agencies are USDA's Agricultural Research Service, Cooperative State Research Service, Extension Service, and the National Agricultural Library.



photo: J. Swab

NAL Director Joseph H. Howard greets Dr. Acker and his assistant, Carol Cones.



photo: J. Swab

Pamela Mitchell (front right) of NAL's Information Systems Division (ISD) demonstrates the plant genome database to Dr. Acker and Ms. Cones, while Mr. Howard, Gary McCone, Head, Database Administration Branch, Susan McCarthy, Coordinator of the Plant Genome Data and Information Branch, and Rose Broome, a database manager in ISD, provide information and answer questions.

He also worked as a consultant to the feed industry while at Iowa State University.

Dr. Acker has reviewed food and agricultural programs in more than 20 countries. He served from 1983 to 1986 as an appointee of President Ronald Reagan on the Board for International Food and Agricultural Development.

He is a member of numerous professional and honorary organizations, and has published a number of works on agriculture-related topics, including a widely used animal science textbook. Dr. Acker has been a director of the U.S. Council on Agricultural Science and Technology, chair of the U.S. Deans of Agriculture, chair of the agriculture section of the American Association for the Advancement of Science, president of Gamma Sigma Delta,



photo: J. Swab

Paul Hosman (standing right) of NAL's Educational Programs Unit demonstrates NAL databases, CD-ROMs, expert systems and other computerized information products to (l-r) Mr. Howard, Dr. Acker, Ms. Cones, and Mr. McCone.

and a member of the National Academy of Sciences' Commission on Education in Agriculture and Natural Resources.

Dr. Acker is a native of Atlantic, Iowa. He received his Ph.D. in animal nutrition from Oklahoma State University, Stillwater, in 1957, a B.S. degree in animal science and a degree in animal nutrition from Iowa State University in 1952 and 1953, respectively.

## Stillings Visits NAL

In mid-October, Dr. Bruce R. Stillings visited NAL to become acquainted with the Library, its programs and operations. On September 23, he had been named Deputy Assistant Secretary of Agriculture for Science and Education, U.S. Department of Agriculture, by Secretary Edward Madigan.

In his position, Stillings assists in overseeing four USDA agencies responsible for agricultural research and education involving production and use of animals and plants and development of new products and the use and conservation of soil, water, forest and air resources. Those agencies are USDA's Agricultural Research Service, Cooperative State Research Service, Extension Service, and National Agricultural Library.

Stillings succeeded Harry Mussman, who held the position from August 1989 until September 8, when he moved to USDA's Foreign Agricultural Service, where he is now the U.S. representative to the U.S. Mission to United Nations Agencies for Food and Agriculture (FODAG) in Rome.

"Bruce brings to USDA nearly two decades of management experience in research and development with two major food companies," Madigan said. "We'll draw heavily on that background, as he takes over his new responsibilities."

Since July 1989 Stillings served as vice president for research and development within the Durkee-French Foods Division of Reckitt & Coleman, Inc., a food and household products company based in Wayne, N.J. In that position he directed programs related to research and development, consumer affairs, and quality assurance.

From 1974 to 1989 Stillings worked for Nabisco Foods, Inc., a food produce company based in East Hanover, N.J. During that time he served in several positions, including vice president of technology development, vice president of research and development, and director of food safety.

From 1966 to 1974 he worked for the National Marine Fisheries Services, first within the U.S. Department of the Interior and then when the agency shifted to the U.S. Department of Commerce. He held several positions at the agency, including national program manager and assistant laboratory director.

Stillings, a native of North Berwick, Maine, holds a B.S. degree in animal science from the University of





USDA photo

Dr. Bruce R. Stillings

Maine in Orono, as well as M.S. and Ph.D. degrees in nutrition, both from Pennsylvania State University.

He is the author and co-author of 40 scientific, technical, and non-technical publications in the areas of food science, technology, and nutrition and has served in leadership positions in such groups

as the American Association of Cereal Chemists, the Institute of Food Technologists, and the American Spice Trade Association.



photo: J. Swab

Dr. Stillings (2nd from right) meets with John Myers (2nd from left), Director of CRIS, CSRS, and NAL managers, Pamela Andre, Associate Director for Automation; Shirley Edwards, Head, Indexing Branch and Acting Associate Director for Technical Services; Marlene Taylor, Administrative Manager; Maria Pisa, Assistant Director for Policy and Planning; Joseph H. Howard, Director; and Keith Russell, Associate Director for Public Services. Dr. Stillings' visit to NAL also included a tour of the Library and demonstrations of its information products and services.



## **The Agricultural Journalism Excellence Program Call for Entries The Associates of the National Agricultural Library Sponsor First Annual Agricultural Journalism Awards Awards Totaling \$6,000**

On October 19, 1992, the Associates of the National Agricultural Library, Inc., announced its sponsorship of the Agricultural Journalism Excellence Program. The Award

program, administered by the University of Maryland College of Journalism, is offering \$2,000 awards in three categories recognizing print journalism excellence in the reporting and coverage of the field of agriculture.

Entries may address the broadest range of issues and topics relating to agriculture from production, consumption, and nutrition to biotech and science, the environment and government matters. Only single articles or stories are eligible and candidates may submit up to two separate and unrelated articles and stories from each of the following categories.

- Magazines with national and regional circulation
- Daily newspapers over 100,000 circulation
- Daily newspapers under 100,000 circulation

Articles must have been published between July 1, 1991, and July 1, 1992.

Entries must be post marked no later than January 15, 1993.

Awards will be announced in the Spring of 1993.

A \$25 fee is incurred for each entry. Please make checks payable to Associates of the National Agricultural Library.

Send entries and checks simultaneously to:

*Associates of the National Agricultural Library  
1555 Connecticut Avenue, N.W., Suite 200  
Washington, D.C. 20036*

For inquiries, please call Mr. Tom Bryant, Jr., at (202) 462-9600.

The National Agricultural Library's mission is to increase the availability and broaden the utilization of current agricultural information. The Associates of the National Agricultural Library is a nonprofit organization committed to ensuring the Library's leadership role in managing vital agricultural knowledge to meet the challenge of today and tomorrow.





**Animal  
Welfare**

## Larson Selected for COMSCI Fellowship



photo: D. Starr

Jean Larson

and projects dealing with ecological restoration. The 10-month Fellowship began September 21.

During Jean Larson's absence, Robyn Frank, Head of NAL's Information Centers Branch, is Acting Coordinator of AWIC, and Tim Allen, Technical Information Specialist in AWIC, is responsible for day-to-day operations of the information center.

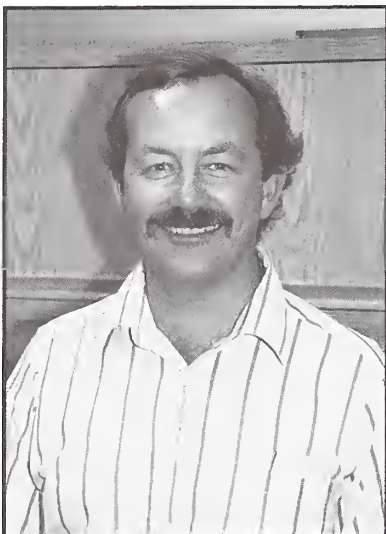
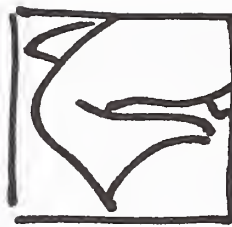


photo: J. Swab

Tim Allen



**Aquaculture**

## Zhao Is Research Scholar in AIC

Mr. Zhao Mingjun, a fisheries information specialist from the Scientific Research Institute, Chinese Academy of Fishery Sciences in China, spent a month in NAL's Aquaculture Information Center (AIC) as a "Research Scholar." Mr. Zhao was the initial systems operator and database trainer for software being used in the UDSA Science and Education Evaluation Study conducted by AIC. Mr. Zhao also helped AIC with its efforts to formalize plans for an Aquaculture Information Exchange Program with China. Mr. Zhao's time with NAL was sponsored by Sea Grant and the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration (NOAA) in collaboration with NAL.



photo: E. McVey, courtesy V. Shen

Debbie Hanfman, Coordinator of the Aquaculture Information Center, Mr. Zhao, and Verna Shen, who provided liaison for some of Mr. Zhao's activities, are seen here on his last day with AIC.





**Food &  
Nutrition**

## **Mexican Government Donates Nutrition Education Program to NAL**

by Natalie A. Updegrave  
Food and Nutrition Information Center

On July 20, 1992, three visitors from the Dirección de Asistencia Alimentaria, the food assistance program of the Mexican government, came to NAL to donate a nutrition education curriculum.

The visitors were Ernesto Naranjo Guzmán, Food Assistance Director; Adriana Moctezuma Chavarria, Chief of the Nutrition Education Department; and Aurora Sánchez Barreira, Nutritionist. The Dirección de Asistencia Alimentaria is part of the National System for the Development of the Family (DIF) a Federal program in Mexico. The primary activities of the food assistance agency are nutrition education, food aid, and family gardening.

In order to provide a uniform nutrition education to the people of Mexico, including those citizens living in rural areas, Dirección de Asistencia Alimentaria developed a nutrition education curriculum which can be used nationwide. The curriculum includes flip charts, slides, brochures, and teacher guides. The curriculum is modified for the intended audience. For example, in rural areas with no electricity, flip charts are used instead of slides. The flip charts and brochures

are mostly pictorial explanations of nutrition topics for an audience with low literacy skills.

The visitors presented the nutrition education curriculum to Joseph H. Howard, NAL Director, in the presence of Food and Nutrition Information Center (FNIC) and Information Centers Branch (ICB) staff. This Spanish language curriculum will be a valuable addition to the Library collection and a useful tool for nutrition educators in this country. The visitors spent the remainder of the day touring FNIC and NAL, working in FNIC, and viewing technology demonstrations. They hope to work cooperatively with FNIC in the future.



photo: J. Swab

Natalie Updegrave introduces FNIC to the Mexican visitors. (L-R) Ms. Moctezuma, Ms. Updegrave, Ms. Sánchez, and Mr. Naranjo.



photo:

Visitors from the Mexican Food Assistance Program, Dirección de Asistencia Alimentaria, presented NAL with a collection of nutrition education materials developed by the Dirección. (L-R) Aurora Sánchez Barreira, Nutritionist; Joseph H. Howard, NAL Director; Adriana Moctezuma Chavarria, Chief of the Nutrition Education Department; Ernesto Naranjo Guzmán, Director of the Food Assistance Program; Natalie Updegrave, Cynthia Gossage, and Cynthia Roberts, Food and Nutrition Information Center, NAL; and Robyn Frank, Head, Information Centers Branch, NAL.





Natalie Updegrove (right) explains the services of the Food and Nutrition Information Center (FNIC) to Women's, Infants', and Children's (WIC) program nutritionists from Maryland.

photo: D. Starr



photo: J. Swab

Dietitians who work for the U.S. Bureau of Prisons from around the Nation recently held a meeting at NAL. The meeting was led by Grace Rodgers (center) from the D.C. office of the Bureau. Natalie Updegrove (3rd from right) gave an update on FNIC services.

## Carolyn Costa Retires

In May 1992 Carolyn Costa retired, and in May 1985 she also retired. Between her first retirement and her second retirement, Carolyn Costa worked with the Information Centers Branch as a member of the administrative support staff on a contract through the University of Maryland. Prior to her first retirement she had worked for both NAL and other USDA agencies. Her career with USDA began with the Tobacco and Medicinal Plants division of ARS in November of 1945, where she remained till 1947. After an interval to raise a family, she returned to work in the government. From September 1972 to May 1975 she was with NAL as a secretary in the Director's Office, the former Computer Applications Division, and the Food and Nutrition Information Center. She was then a secretary with the National Program Staff of the Agricultural Research Service until her first retirement.

A large group of colleagues and friends gathered to express their joy of having worked with Carolyn Costa for the additional years, and to wish her a long and happy retirement. Ms. Costa, a native of Washington, DC, and her husband, John, retired from Sears, Roebuck, & Co., have five children and eight grandchildren. In their leisure time, the Costas enjoy making short trips, going out for dinner, and being with their children and grandchildren.

— Joseph N. Swab

## Carol Nelson Retires

After twelve years with the National Agricultural Library, Carol Nelson retired at the end of October. She joined the NAL staff in November 1980 as Secretary to the Food and Nutrition Information Center, and for the last several years was Secretary of the Information Centers Branch, headed by Robyn Frank. Before coming to NAL, Ms. Nelson was secretary to the Lab Chief at the Non-Ruminant Animal Nutrition Laboratory of the Agricultural Research Service for 10 years, and was also a secretary in the private sector.

Recently, her colleagues and friends gathered at a local restaurant to wish Carol Nelson the best in retirement and to reminisce about their joys of working together.

A native of Washington, DC, now living in Maryland, Ms. Nelson is active in church activities. She and her husband Clay, retired from Mann's Potato Chip Co., enjoy antiquing in their spare time; they enjoy hunting for, refinishing, and selling antique furniture and collectibles. The Nelsons have three daughters and nine grandchildren.



photo: J. Swab

Carol Nelson





Carolyn Costa

photo: J. Swab



**New  
Publications  
of Note**

## Frank to Edit Journal of Agricultural & Food Information

Robyn Frank is the new editor of the forthcoming *Journal of Agricultural & Food Information*, The Haworth Press, Inc., recently announced in New York.

Ms. Frank brings a wealth of experience in the dissemination of agricultural and food information to her position as editor. She is currently Head of the Information Centers Branch, Public Services Division, of the National Agricultural Library in Beltsville, Maryland. Her former positions include Coordinator of the Food and Nutrition Information Center (NAL), and positions with the American Society for Information Science (ERIC Clearinghouse on Library and Information Sciences), and the Public Schools of the District of Columbia.

She also has had experience in food and agricultural services publications. Her most important publications include "Agricultural Information Services and Systems," published in the *Annual Review of Library and Information Technology*, and the book, *Directory of Food and Nutrition Information for Professionals and Consumers, 2nd Edition*, (Oryx Press, 1984). In 1991 Ms. Frank was honored as a recipient of the Distinguished Member Award of the Food, Agriculture, and Nutrition Division of the Special Libraries Association. A frequent guest speaker, she is also an appointee to the Technical Advisory Board for the National Food Services Management Institute for 1990-1992.

Under its new editorship, the *Journal of Agricultural & Food Information* focuses on the communication of research and innovative practice covering all aspects of agricultural and food information. The *Journal of Agricultural & Food Information* has a strong interdisciplinary emphasis in order to stimulate research and encourage dis-



photo: J. Swab

Information Centers' staff who worked with both Ms. Costa and Ms. Nelson daily include (l-r) Darlene Hagen, Marion Carroll, Natalie Updegrove, Cindy Gossage, Becky Thompson, Nancy Domchick, and Marcy Schweibinz; with Carolyn Costa.

## USAIN/NAL Update Meeting at ALA Midwinter

USAIN and NAL will present an update of activities at the American Library Association Midwinter meeting in Denver on Friday, January 22, 1993, from 4:00 to 5:30 p.m.

This change to Friday afternoon from the traditional Tuesday afternoon should make it easier for persons having an interest in USAIN and NAL to attend.

Check the ALA program for the meeting location.

NOTE: NAL will not have an exhibit at this ALA Midwinter.

— Mary Silva

cussion among a number of disciplines, including information specialists, librarians, extension specialists, agricultural communicators, educators, database producers, government policymakers, and consultants who work in government, academia, not-for-profit organizations, private industry, professional/trade associations, and the media.

Agriculture and food are defined in their broadest sense to include not only the traditional subjects of plant and animal husbandry, but also food and nutrition science, nutrition education, aquaculture, animal welfare, agricultural economics, rural development, youth development, water quality, sustainable agriculture, biotechnology, and global change.

Each quarterly issue of the journal will contain scholarly, peer-reviewed articles, database highlights, extension updates, spotlight on collaborative efforts, updates on special projects, and book reviews. Articles will include review or state-of-the-art papers, results of evaluation studies, selected annotated bibliographies, special collection profiles, database comparisons, and significant speeches.

### Call for Papers

The editor welcomes the submission of papers for review and possible publication. Prospective authors should request an "Instructions for Authors" brochure from:

*Robyn Frank, Editor*  
*Journal of Agricultural & Food Information*  
8349 Reservoir Road  
Fulton, Maryland 20759.

The editor welcomes the submission of articles on a range of topics, including:

- new information/communications technology
- technology transfer
- information needs/end-user concerns
- electronic publishing
- cooperative and networking efforts
- international issues
- collection management and preservation
- trends affecting the delivery of information
- database comparisons
- ethical questions
- information management
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photo: D. Starr

Robyn Frank



photo: J. Swab

Holly Irving

## Directory of Food and Nutrition Information for Professionals and Consumers, Second Edition

Edited by Robyn C. Frank and Holly Berry Irving

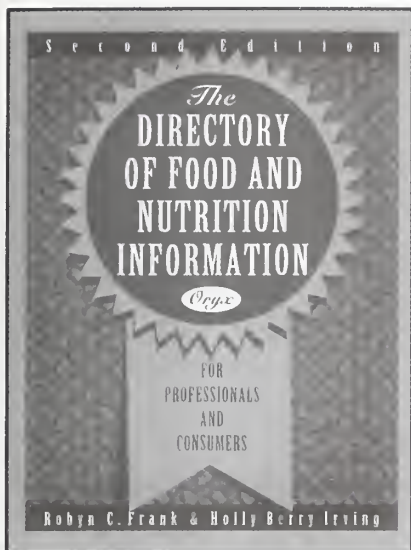
### New Edition Expands Coverage

Consumer concern over health care costs and interest in nutrition issues have added impetus to the need by professionals for a directory of accurate and reliable information sources on food and nutrition. To meet these expanding needs, Robyn C. Frank and Holly Berry Irving of the National Agricultural Library have created a new edition of the Directory of Food and Nutrition Information Services and Resources.

Now, more accurately called the Directory of Food and Nutrition Information for Professionals and Consumers, this resource brings together for easy reference prime research and information sources on nutrition education, food science, food service management, and related aspects of applied nutrition.

The Directory covers 550 organizations that provide information services and identifies each source's name and address, telephone number (some list FAX numbers), type of organization, purpose, geographic area served, areas of interest, clientele and audience, and specific services offered. There are 230 colleges, universities, and tech schools listed that offer degrees in food and nutrition, food service management, and closely related areas of study. These entries also list contact name, address, telephone, and FAX numbers, in addition to the type of institution, degrees offered, curriculum, faculty research interests, and services.





## New Features Meet User Demands

In addition to updated coverage, new features to enhance the value of the second edition include listings for:

- More than 150 software programs related to food and nutrition
- Producers/distributors for more than 50 major nutrition-oriented databases
- Selected cookbooks, consumer magazines, and consumer reading lists
- Food and nutrition-related museums and special collections
- Funding programs for food and nutrition-related research

Additional chapters list annotated bibliographies of professional journals, newsletters, and key reference materials. Abstracting and indexing services, and commercial and government producers of print and audiovisual publications are identified, as are toll-free numbers, hotlines, and helplines.

## Sample Entry

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HNIS/Nutrition Guidance & Education Division

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Hyattsville, MD 20782

(301) 436-8617; FAX: (301) 436-5496

CONTACT: Johna L Pierce, Public Information Officer

ORGANIZATION TYPE(S): Federal government agency (U.S.); Research institute

GEOG AREA SERVED: National (U.S.)

AREA(S) OF INTEREST: Nutrition education; Food science; Human nutritional requirements; Health promotion; Public policy; Food assistance programs; Food consumption statistics; Food supply data

CLIENTELE: General public; Educators; Researchers/scientists; Nutritionists/dietitians; Health care providers; Food service personnel; Organization members; Students

AUDIENCE: Educators; Researchers/scientists; General public; Nutritionists/dietitians; Health care providers; Low-literacy adults; Pregnant women; Elderly

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PUBLICATIONS: *Nutrition and Your Health: Dietary Guidelines for Americans*—Federal government's principal statement of nutritional advice (Free).

*Composition of Foods*—Updates of Handbook 8 by food group. *Calories and Weight: The USDA Pocket Guide* (\$1.75). *Nutrition Monitoring in the United States—An Update Report on Nutrition Monitoring*. Published cooperatively by the U.S. Dept of Health and Human Services and the USDA.

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## About the Editors

Editor Robyn C. Frank is Head, Information Centers Branch, Public Services Division of the National Agricultural Library. She is the editor of the *Journal of Food and Agricultural Information*, and the author of the first edition of the *Directory of Food and Nutrition Information Services and Resources* (Oryx Press, 1984). In 1991, Ms. Frank received the Distinguished Member Award in recognition of outstanding service to the association, division, and profession from the Food, Agriculture, and Nutrition Division of the Special Libraries Association.

Co-editor Holly Berry Irving, M.S., R.D., L.D., is a technical information specialist in the Technical Services Division of the National Agricultural Library, Beltsville, MD. She is a member of Omicron Nu (honor society for home economics) and a member of the American Dietetic Association.

# NAL Publishes Native American Resource Guide

In anticipation of events celebrating the heritage of Native Americans in November, the National Agricultural Library published *Native Americans: A Resource Guide*. It features a bibliography of selected writings on Native American agricultural techniques and ethnobotany, culture and socioeconomics, food and nutrition, and government relations and history. The guide also includes a directory of Native American organizations, a list of sources for general information on Native Americans, and listings of colleges and universities offering strong Native American curriculums. The centerfold of the publication contains a map showing locations of "Federally Recognized Indian Tribes."

*Native Americans: A Resource Guide* was published under the auspices of NAL's Equal Employment Opportunity Special Emphasis Programs. It is Number 121 in USDA's *Bibliographies and Literature of Agriculture* series.

NAL cataloger (and former Special Emphasis Programs Coordinator) Laura Nauta compiled the guide in collaboration with Shirley King Evans, NAL's current Special Emphasis Programs Coordinator and technical information specialist in the Food and Nutrition Information Center.

To obtain a copy of the guide, send a self-addressed label with the request to:

*Native Americans Guide*  
Reference Section, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351  
Or call (301) 504-5204

The full text of the *Native Americans: A Resource Guide* is also available on ALF, NAL's electronic bulletin board, and can be downloaded; the filename is BLA121.BIB. ALF access numbers are: (301) 504-6510, 504-5111, 504-5496, or 504-5497. Persons unfamiliar with ALF may request an *ALF User's Guide* from the address given above.



photo: J. Swab

Shirley King Evans and Laura Nauta, compilers of the *Native Americans: A Resource Guide*. Nauta has since left NAL to be head of cataloging at the U.S. Naval Academy in Annapolis.

## New NAL/EPA Bibliographies Available

Four new bibliographies in the series related to agricultural crops from the point of view of "diseases and other environmental considerations" have been produced by the National Agricultural Library in cooperation with the U.S. Environmental Protection Agency. The bibliographies are:

*The Protection of Corn, September 1988-May 1992*

*The Protection of Pome Fruits, March 1985-May 1992*

*Biotechnology in Agriculture, 1986-May 1992*

*Methylbromide and Its Alternatives as Fumigants, 1979-May 1992*

Each of the bibliographies consists of citations from AGRICOLA. These bibliographies are the 44th thru 47th of the NAL/EPA "Protection of" group of bibliographies and were published in USDA's *Bibliographies and Literature of Agriculture* series, Numbers 115, 118, 119, and 120 respectively. They were compiled by Charles N. Bebee. The "Corn" bibliography includes Author, Subject and Site Indices. The other three only include the Author Index. Subject and Site Indices for the remaining bibliographies are in preparation and may be obtained by writing to the address below after January 1993.

To obtain a copy of one or more of the bibliographies, send a self-ad-





addressed label with the request indicating the title(s) desired to:

Reference and User Services Branch  
National Agricultural Library, Room 1402  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone (301) 504-6875

## Aquaculture Guide Available from AIC

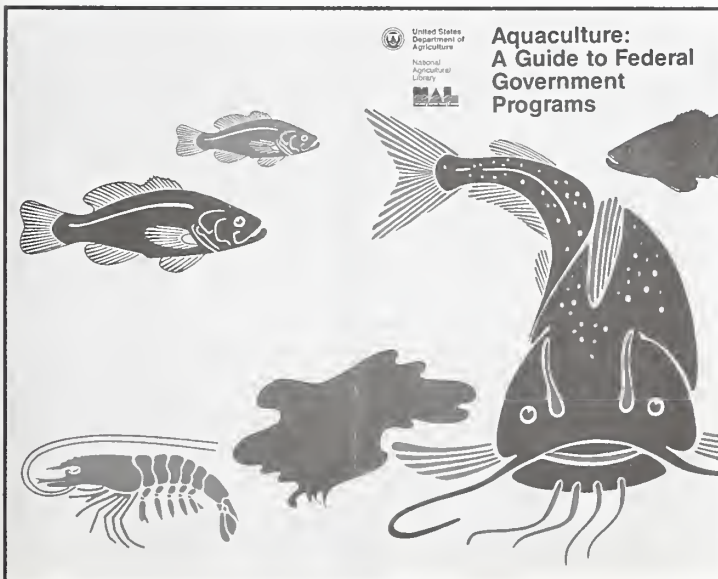
The third edition of a popular guide to federal aquaculture activities is available from NAL's Aquaculture Information Center (AIC). Prepared by the Joint Subcommittee on Aquaculture in cooperation with NAL, *Aquaculture: A Guide to Federal Government Programs* provides specific descriptions of the aquaculture activities of federal agencies.

Deborah Hanfman, AIC coordinator, stated that the guide was developed as a resource tool to help individuals interested in aquaculture learn what the federal government is doing in the field. "The guide describes the activities of federal agencies and lists addresses and telephone numbers to contact for more information. It's probably the most complete guide on the subject available."

Hanfman said that the National Aquaculture Improvement Act "recognizes that aquaculture in the United States is a viable approach to meeting food needs. The act made it national policy to promote aquaculture in the United States by encouraging aquaculture activities and programs in both the public and private sectors of the economy. The guide helps in this regard."

To obtain a copy of the guide, send a self-addressed label with the request to:

Aquaculture Information Center  
National Agricultural Library, Room 109  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone: (301) 504-5704  
[TTY: (301) 504-6856]



## AFSIC Issues 3 Sustainable Agriculture Publications

Three new publications dealing with sustainable agriculture are available from the National Agricultural Library. *Sustainable Agriculture in Print: Current Books; Videocassettes in the NAL Collection Pertaining to Alternative Farming Systems*; and the *Calendar of Events related to Sustainable Agriculture* were produced by NAL's Alternative Farming Systems Information Center (AFSIC) and are available free of charge.

The first two publications are bibliographies of books and videotapes on sustainable agriculture. Jayne MacLean, AFSIC Coordinator, indicated that particularly useful features of both bibliographies are the annotations written by volunteers who helped to produce the publications.

"The descriptive comments help library users find books or videos on a particular area of sustainable agriculture more quickly," MacLean said.

The *Calendar of Events* publication includes an eight-page listing of national and regional seminars and conferences on sustainable agriculture. It will be updated periodically.

Copies of the publications are available by sending a self-addressed mailing label, with a request specifying the desired publication, to:

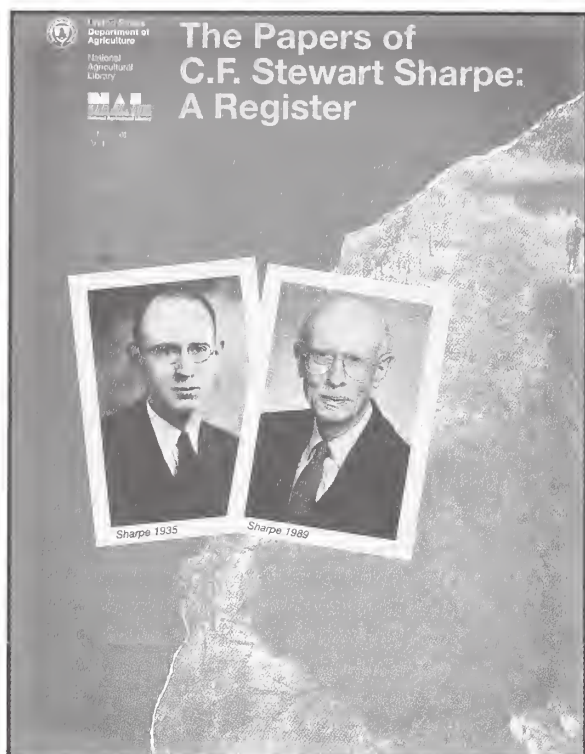
AFSIC, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

## Noted Geologist's Papers Now Part of NAL Collection

The papers of noted geologist and soil conservation scientist Dr. C.F. Stewart Sharpe are the latest addition to the collection of agricultural materials at the National Agricultural Library. The papers contain records accumulated by Sharpe from 1935 to 1943, when he worked as a soil conservationist in the Climatic and Physiographic Division of the Soil Conservation Service of the U.S. Department of Agriculture.

The papers fill 12 archival manuscript boxes and consist of articles, translations and publications related to geomorphology and erosion; correspondence; research notes and draft reports on physiographic studies; and photographs and lantern slides documenting soil erosion studies. Sharpe donated the collection to NAL.

In September the library published a guide to the contents of the collection entitled *The Papers of C. F. Stewart Sharpe: A Register*. Anne B. W. Effland, His-



torian, Agricultural and Rural History Section, Economic Research Service, USDA, arranged and described the materials in the collection and compiled the register, which was published in USDA's series, *Bibliographies and Literature of Agriculture*, Number 114.

To obtain a copy of the register, send a self-addressed label with the request to:

Special Collections, Room 1402  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone (301) 504-6876  
[TTY: (301) 504-6856]

## The Sharpe Papers Historical Note

The records in this collection document work carried out by the Climatic and Physiographic Division of the Soil Conservation Service, USDA. Beginning in 1935, that division pursued research in climatology, geomorphology, and erosion history to support the larger mission of the Soil Conservation Service to understand and reduce soil erosion in the United States. Dr. C. F. Stewart Sharpe worked on the geomorphology, or physiographic, studies of the division. The purpose of the physiographic work was to determine the processes causing natural and accelerated erosion. Division research scientists studied a number of sites around the nation, each site representing a different climatic and physiographic

region. Reports compiled by these research scientists provided conservationists with fundamental information on the processes of erosion in different regions and recommendations for technical approaches to reduce the effects of that erosion. Although terminated in 1943 by wartime budget and personnel shortages, the division completed studies at three locations: Polacca Wash Navajo-Hopi Indian reservation, an arid site in north-eastern Arizona marked by channel erosion; Spartanburg, South Carolina, a site in the humid Piedmont Southeast marked by deep gully erosion; and a series of sites in the karst limestone region of Kentucky marked by sink-hole erosion. Projects to study slope movement in the Appalachian Plateau region in southeastern Ohio and erosion of windblown silt (loess) soils in northwestern Mississippi never produced final reports, but are documented in the papers of this collection.

Further details on the work of the Climatic and Physiographic Division will be found in reports included in the collection.

— Anne B. W. Effland



photo: J. Swab

Anne Effland,  
Compiler of the Sharpe "Register"

## C. F. Stewart Sharpe Biographical Note

C(harles) F(arquharson) Stewart Sharpe, always known to his family, friends, and coworkers as Stewart Sharpe and professionally as C. F. Stewart Sharpe, was born in Winnipeg, Manitoba, Canada, on October 21, 1907. He received an A.B. in English and Economics, and M.A. and Ph.D. degrees in Geology from Columbia University in 1928, 1931, and 1938, respectively. Following completion of his doctoral program, Sharpe worked as an assistant soil conservationist in the Climatic and Physiographic Division of the Soil Conservation Service, USDA, from 1935 to 1938. He became an associate soil conservationist in 1938 and acting head of the Physiographic Section in 1941. Early in World War II, when work in the Climatic and Physiographic Division ceased, Sharpe entered the Research and Analysis Branch of the Office of Strategic Service as a geographer. He remained in that position from 1943 to 1945. During that time he served as acting head of the Terrain-Hydrology Section of the Europe-Africa Division (1943-44) and editor for the Joint Intelligence Study Publishing Board (1944-45). In 1945, this work was transferred to the Office of the Special Assistant, Research and Intelligence, U.S. Department of State, where Sharpe continued to serve as a geographer. He held that position until 1948, when he became a technical editor with the Central Intelligence Agency. While with the Department of State, Sharpe served as deputy editor in chief (1945-47) and editor in chief



(1947-49) for the Joint Intelligence Study Publishing Board.

Sharpe retired from government service in 1969. He is a fellow of the Geological Society of America and a member of the Association of American Geographers, the Association of Engineering Geologists, and the American Geophysical Union. His special fields of work have included mass movement of soil and rock, soil erosion, and accelerated erosion.

Sharpe married Lois Kremer, who also holds a Ph.D. in geology, in 1936. They have two sons and live in Falls Church, Virginia.

An oral history interview with Dr. Sharpe is available at the Agricultural and Rural History Section, Economic Research Service, USDA.

— Anne B. W. Effland

posium, were: Anne Effland, Historian ERS; Judy Keane, Master's Degree Candidate, University of Maryland; Denise Rogers, Agricultural Economist, ERS; Kimberly Schmidt, PhD Candidate in History, SUNY Binghamton; and Jane Gates, NAL Federal Women's Program Manager.

— Jane Gates



photo: J. Swab

Cynthia Vagnetti, producer of the video, "Kansas Farm Women; Growing Out of the Tilt," presented copies of her 20-page publication by the same title to the audience at the NAL Women's Equality Day program. She spoke briefly about the origins and development of the project sponsored by the Kansas Rural Center and other organizations.



**Special  
Events**

## Observance of Women's Equality Day

The Federal Women's Program, one of the Special Emphasis Programs at the NAL, celebrated the occasion of the anniversary of the ratification of the 19th Amendment to the United States Constitution with a briefing on the "Symposium on Rural/Farm Women in Historical Perspective". The Symposium was held in June 1992, at the University of California, Davis; the briefing was given on Tuesday, August 25, in NAL's Room 1400.

Briefing presenters, all of whom had attended the Sym-



photo: J. Swab

The Women's Equality Day panel at NAL included (l-r) Denise Rogers, Anne Effland, Kimberly Schmidt, Jane Gates, and Judy Keane.

## USDA, ARS, Beltsville Area EEO-FWP Awards

The Federal Women's Program of the Agricultural Research Service (ARS) held its annual Recognition Program on Thursday, August 27, at the Ft. Meade Officer's Club. In celebration of Women's Equality Day, the occasion's theme



photo: J. Swab

At the joint USDA agency EEO-FWP awards program, Vallie Bray, Head of the FWP at ARS, presented Clarence Keen of NAL with an appreciation award for his services to the program throughout his career.

was "Women as Leaders in Their Communities." Attending from NAL were Clarence Keen, Sherry Gibson, Tanya Tanner, Joe Swab, and Jane Gates. Clarence Keen received an "Appreciation Award" for his assistance with EEO programs at ARS both before and since his transfer to NAL.

Following the presentation of awards, the



photos: J. Swab

At the head table for the joint USDA FWP program were (l-r) Dr. Joan Lunney, ARS; Tanya Tanner, NAL; Dr. Mary Ann Guadagno, ARS; Margritt Mason, ARS; Sharon Fries Britt, Univ. MD, speaker; Jane Gates, NAL; Maryann Loftus, ARS; Dr. Judy St. John, ARS; Robin Williams, vocalist; and Vallie Bray, ARS.

keynote speech was given by Sharon Fries-Britt, Assistant to the Vice-President for Student Affairs, University of Maryland, College Park. Fries-Britt has been named one of the Outstanding Young Women of America and is listed in *Who's Who Among Black Americans*. She spoke on the subject of "Women as Leaders in a Multi-Cultural Society."

—Jane Gates



(Above right) Sharon Fries-Britt, speaker at the joint Women's Equality Day program, and Jane Gates, NAL Federal Women's Program Manager.

(Below) Vallie Bray and Margritt Mason, ARS Special Emphasis Programs co-Managers, organized the Women's Equality Day Program.

(Below right) Robin "Sugar" Williams, vocalist at the Women's Equality Day; she is also a local high school student and a local church soloist.





# EEO & Cultural Heritage Programs in FY92

In addition to the Federal Women's Program activities shown on the preceding two pages, NAL also sponsored, or co-sponsored with the Agricultural Research Service, activities related to Black History Month, Native Americans' Heritage Month, Asian/Pacific Americans Heritage Month, Hispanic Americans Heritage Month, and a Multi-Cultural Festival. The programs featured speakers who reminded employees of the value of diversity in the work force and the cultural heritage that can enrich the lives of all employees; exhibits of materials representing the cultural heritage of the various groups; performing artists; and ethnic foods.

— Joseph N. Swab



photos: J. Swab

Principal speakers at the Black History Month Program were:



(above) Dr. Carolyn Brooks, Associate Professor, Agricultural Sciences, University of Maryland Eastern Shore, whose speech, "Who Will Feed Us?," emphasized the role of American farmers in feeding the world, and the role of blacks in U.S. Agriculture;

(above right) Dr. Essex E. Finney, Associate Administrator of ARS;

and (right) Mcjezaji Axum, of the Plant Science Institute, Fruit Laboratory, ARS, who was also MC.



See also the front page of this issue of ALIN.

At the Native American Heritage Month program, the principal speakers were: (above left) Dr. J. T. Garrett, Deputy Director, Health Care Administration... in Indian Health Service (IHS), and a member of the Eastern Band of Cherokee Indians; and (above right) Patricia DeAsis, advisor to the Director of IHS, and member of the Cherokee Nation of Oklahoma. Other speakers at the program included Ms. Gay Northedge, Dr. Arthur Nies, Mr. Ronald Beck, Ms. Barbara LaCour, and Mr. Robert Fletcher, all of the Agricultural Research Service. A number of NAL staff attended the program and participated in related activities.

Dancers (below left) and musicians (below) of the Piscataway Indian Nation performed traditional dances and music for the assembly of USDA staff from several agencies. See also the front page of this issue of ALIN.

photos: J. Swab







photo: J. Swab

Hispanic Heritage Month featured several programs including a slide-lecture on "Animals and Indigenous Cultures of Honduras and Guatemala" by Mike Kreger, Technical Information Specialist in NAL's Animal Welfare Information Center.

Other activities for the month included the program "Managing Diversity within the Hispanic Culture" by Sandrella Robinson, a freelance consultant who also works with NUMIDIA Press; an exhibit, "Traditional Hispanic Culture Artifacts;" and a book display on the theme "Hispanic Science and Culture."



photo: L. Nauta

Among those who worked on the Asian/Pacific American Heritage Month exhibit and program were (l-r) Sarah Malik (Cataloging); Joseph Swab (ALIN Editor, Director's Office); Nalini Basavaraj (Cataloging); Sherry Davids (Cataloging); Ellen Nollman (Cataloging); Melanie Gardner (Cataloging); Shirley King Evans (Food & Nutrition), NAL's Special Emphasis Programs Manager; Martina Lydon (Cataloging); Angela Lee (Cataloging); and Joy Zimmerman (Rural Information Center). Not present were: Mary Lou Behrens (Document Delivery); Rebecca Thompson (Information Centers); and Louise Reynnells (Rural Information Center).

The Asian/Pacific exhibit included artifacts from China, India, Indonesia, Japan, Korea, Nepal, Pakistan, Philippines, Thailand, Tibet, and Vietnam, and included wood carvings, brass and bronze ware, cloisonné, clothing and objects made of fabrics, calligraphy and stone rubbings on paper, cultured pearls, dolls and puppets of various kinds, embroidery, ceramics of several kinds, poetry and rare books, paintings and wood block prints, sculptures of several kinds, netsuke, shoes, swords, pewter ware, and so forth. The objects were loaned to the exhibit by NAL staff, their spouses, and friends, with the exception of the rare books, which were from the NAL collection.



photo: V. Shen

Yang Meng, first secretary of the Chinese Embassy, was one of the speakers at the Asian/Pacific American Heritage Month program on the theme "Cross Cultural Sensitivity." She spoke about the experiences of "a Chinese person living in the United States."



photo: D. Starr

Dr. Richard Reynnells, of USDA's Extension Service spoke at the "Cross Cultural Sensitivity" program on the experiences of "an American visiting China."

(Below) Part of NAL's Asian/Pacific American Heritage Month Exhibit.







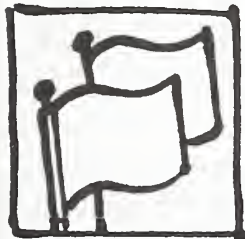
photo courtesy of V. Shen

Verna Shen (right) of NAL's Cataloging Branch and her husband, I-Yao Shen (left), author of "A Century of Chinese Exclusion Abroad," were invited by Senator Tom Daschle of South Dakota (2nd from right) to participate in the Senate's program "Asian and Pacific Americans: The Immigration Act of 1990" at the Dirksen Building on May 20, 1992. The keynote speaker was Senator Paul Simon of Illinois (2nd from left).



photo: J. Swab

Ainu carved wood male and female dolls from Northern Japan were part of the Asian/Pacific American Heritage Month Exhibit.



## Visitors

(Below) Verna Shen (left) of NAL's Cataloging Branch led a tour of NAL with concentration on its technology applications for a delegation from the State Science and Technology Commission (SSTC), People's Republic of China (L-R): Zhang Qiyi; Song Xuegong; Yang Yongquan; Xu Shibin; Chen Heping, Second Secretary, Chinese Embassy; and Fei Aijun. On the right is Zhao Mingjun, visiting researcher in NAL's Aquaculture Information Center.

photo: J. Swab



(Below) Ghislaine Poitevien, Technical Executive Secretary of the Interamerican Association of Agricultural Librarians and Documentalists, visited NAL regarding cooperative projects and development support for libraries in Latin America.

photo: J. Swab





photo: J. Swab

A delegation from the Chinese rice genome program visited NAL's Plant Genome Data and Information Center (PGDIC) in September to discuss common interests of both nations' programs. (L-R) Dr. Doug Bigwood, NAL's genome database manager; Dr. Susan McCarthy, PGDIC Coordinator; Dr. Jerry Mischke, Director of the ARS Plant Genome Research Program; Guo Fan Hong, Director, National Center for Gene Research, Chinese Academy of Sciences; Dr. Qifa Zhang, Associate Director, State Key Laboratory of Crop Genetic Improvement, Huazhong Agricultural University; and Wei Jun, Associate Professor, Chinese National Center for Biotechnology Development.



photo: J. Swab

Freider Schmidt of the Central Agency for Agricultural Documentation and Information (ZADI), Germany, was the principal speaker at a program hosted by the Plant Genome Data and Information Center. His topic was "Plant Genetic Resources in the Federal Republic of Germany."



(Left) In an ongoing program of NAL cooperation with agricultural libraries in Mexico, (L-R) Alfonso Ayala, General Coordinator for the Government of the State of Veracruz, Maria Pisa, NAL's Assistant Director for Policy and Planning, Joseph Howard, NAL Director, and Jose Becerra O'Leary, Veracruz Secretary of Agricultural Development, met here recently.

(Below left) A delegation from the Consortium for International Earth Science Information Network (CIESIN) from Michigan recently met with Janet Wright, NAL's Global Change Initiative Coordinator, and other NAL managers; they are (L-R) Robert Coullahan, Vincent Abren, Lou Ventre, Ms. Wright, and Rick Siccone.

(Below) NAL and other USDA agencies have a continuing program of cooperating with the 1890 land-grant universities and assisting them with development. Recently Dr. Nicholas Gaymon, Director of Libraries at Florida A & M University, and President of the 1890 Land-Grant Librarians Association, visited NAL to discuss current and potential projects.







photo courtesy V. Shen

Verna Shen (front right center) led a tour of NAL and the Beltsville Agricultural Research Center for a group from the Education Division of the Embassy of the People's Republic of China. They are seen here in the apple orchard with Dr. Miklos Faust (6th from right), Chief of the Fruit Laboratory, ARS.



photo: D. Starr

Jack Crooks, Senior Vice President of Ocean Spray, visited NAL recently to discuss potential joint projects with the Library and with the Associates of NAL, Inc. The Associates project is related to original fruit paintings in NAL's Special Collections.

(Below) Verna Shen of NAL's Cataloging Branch led a tour of NAL for visitors from the Mongolian People's Republic. (L-R) Ms. Shen; Dugersuren Tuya, Director of the Children's Library, Ulaanbaatar; Dr. Renchingiin Otgon, Director of the State Central Library, Ulaanbaatar; and Toch Toch Gyamcho, Mongol-American Cultural Association, Inc.

photo: J. Swab



(Right) Verna Shen led a tour of NAL and the Beltsville Agricultural Research Center for Division Chiefs from the State Science and Technology Commission, Beijing, China. (L-R) Hang Sanba, Wang Xiao Fang, Ms. Shen, Song Ze Hou, and Shen Maoxiang.

photo courtesy of V. Shen





## New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

## Quick Bibliographies

**Q.B.—92-56.** Women in Agriculture, January 1985-July 1992. 378 citations in English. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. August 1992. Updates Q.B. 91-150.

**Q.B.—92-57.** Transport and Handling of Livestock, January 1981-July 1992. 223 citations; languages: none excluded. Prepared by D'Anna J. Berry. Animal Welfare Information Center. August 1992. Updates Q.B. 91-143.

**Q.B.—92-58.** Laboratory Animal Facilities and Management, January 1985-July 1992. 377 citations; languages: none excluded. Prepared by D'Anna J. Berry. Animal Welfare Information Center. August 1992. Updates Q.B. 91-43.

**Q.B.—92-59.** Housing, Stress, and Welfare of Sheep and Goats, January 1981-June 1992. 268 citations in English. Prepared by Michael D. Kreger. Animal Welfare Information Center. August 1992. Updates Q.B. 91-21 and Q.B. 91-22.

**Q.B.—92-60.** Economic Aspects of Agricultural Bio/technology, January 1986-March 1992. 189 citations; languages: none excluded. Prepared by Nalini Basavaraj. Plant Genome Data and Information Center. August 1992.

**Q.B.—92-61.** Animal Models of Disease, January 1981-July 1992. 202 citations; languages: none excluded. Prepared by Cynthia Petrie Smith. Animal Welfare Information Center. August 1992.

**Q.B.—92-62.** Plant Genome: Breeding for Cold Tolerance in Plants, January 1987-April 1992. 212 citations in English. Prepared by Deborah Y. Richardson. Plant Genome Data and Information Center. September 1992.

**Q.B.—92-63.** Biofuels, January 1986-August 1992. 312 citations in English. Prepared by Ellen Kay Miller. D.C. Reference Center. September 1992.

**Q.B.—92-64.** Effects of Carbon Dioxide Enrichment on Plant Growth, January 1989-August 1992. 182 citations; languages: none excluded. Prepared by Carol A. Singer. September 1992. Updates Q.B. 91-56.

**Q.B.—92-65.** Catfish Farming, January 1987-June 1992. 123 citations; languages: none excluded. Prepared by Elise Kaplan. Aquaculture Information Center. September 1992. Updates Q.B. 91-88.

**Q.B.—92-66.** Ethnobotany and Medicinal Plants, January 1990-June 1991. 591 citations; languages: none excluded. Prepared by Susan A. McCarthy. Plant Genome Data and Information Center. Updates Q.B. 90-44.

**Q.B.—92-67.** Veal Calves, January 1979-August 1992. 255 citations; languages: none excluded. Prepared by D'Anna J. Berry. Animal Welfare Information Center. September 1992.

**Q.B.—92-68.** Monitoring Water for Agricultural Wastes and Agrichemicals, January 1990-June 1992. 238 citations in English. Prepared by David Holloway. Water Quality Information Center. September 1992. Updates Q.B. 91-52.

**Q.B.—92-69.** Simulation Models, GIS and Nonpoint-Source Pollution, January 1988-June 1992. 122 citations; languages: none excluded. Prepared by David Holloway and Joe Makuch. Water Quality Information Center. September 1992.

**Q.B.—93-01.** Societal Impacts of Adoption of Alternative Agricultural Practices, January 1985-August 1992. 273 citations in English. Prepared by Jayne T. MacLean. Alternative Farming Systems Information Center. October 1992. Updates Q.B. 90-57.

**Q.B.—93-02.** Ethnobotany and Medicinal Plants, July 1991-July 1992. 546 citations; languages: none excluded. Prepared by Susan McCarthy. Plant Genome Data and Information Center. October 1992. Updates Q.B. 92-66 and Q.B. 90-44.

## Special Reference Briefs

**S.R.B.—92-13.** Agriculture and the GATT: A Retrospective Bibliography 1948-1980. Prepared by Wayne



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**S.R.B.—92-14.** Videocassettes in the NAL Collection Pertaining to Alternative Farming Systems. Prepared by Raymond Stevens and the Staff of the Alternative Farming Systems Information Center. August 1992. 30p.

**S.R.B.—92-15.** Sustainable Agriculture in Print: Current Books. Prepared by the Staff of the Alternative Farming Systems Information Center. August 1992. 29p.

**S.R.B.—92-16.** Animal Care and Use Committees. Prepared by Tim Allen and Karen Clingerman. Animal Welfare Information Center. September 1992. Updates SRB 90-06. 46p.

**S.R.B.—92-17.** Animal Models in Biomedical Research: Poultry. Prepared by Cynthia Petrie Smith. Animal Welfare Information Center. September 1992. 80p.

**S.R.B.—93-01.** Resource Guide to Growing and Using Herbs. Prepared by Suzanne DeMuth and the staff of the Alternative Farming Systems Information Center. November 1992. 15p.

## Agri-Topics

**AT—92-02.** Food Marketing Resources. Compiled by Mary E. Lassanyi. Agricultural Trade and Marketing Information Center. July 1992. 20p.

## Rural Information Center Publication Series

**R.I.C.P.S.—3.** Rate Elasticity. Compiled by M. Louise Reynnells. Rural Information Center. December 1991. 8p.

**R.I.C.P.S.—6.** Rural Development Resources in the National Agricultural Library Collection. Compiled by Dai Li. Rural Information Center. December 1991. 35p.

**R.I.C.P.S.—13.** Historic Preservation Resources. Compiled by Diane Brigham and annotated by Mark D. Cyzyk. Rural Information Center. December 1991.

**R.I.C.P.S.—17.** Electronic Access to Rural Information: User's Manual for the ALF Electronic Bulletin Board. Prepared by Teresa B. Brown. Rural Information Center. March 1992. 18p.

**R.I.C.P.S.—19.** Federal Funding Sources for Rural Areas. Compiled by M. Louise Reynnells. Rural Information Center. September 1992. 87p.

## Miscellaneous

Educational and Training Opportunities in Sustainable Agriculture. 5th Edition. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. November

1992. 27p.

Guía Nutritiva y Dietética de los Animales Silvestres en Cautiverio. Compiled by Ellen S. Dierenfeld and Michael D. Kreger. Animal Welfare Information Center. 1992. 56p.



## New Serials Received at NAL

*ACP Journal Club.* Philadelphia, PA: American College of Physicians. Bimonthly. Vol. 114, suppl. 1 (Jan./Feb. 1991)-

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**Publications  
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## Serial Gaps

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We appreciate your donation of the following publications needed to complete collections. If you have questions, call Ruth Finnblade, Gift and Exchange Program, (301) 504-7061 [TTY (301) 504-6856].

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*AICHE Journal*. Vol. 30 (3), 1984.

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## Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

If interested, please enclose an addressed label with your request and write to:

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10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

Or call Ruth Finnblade, (301) 504-7061 [TTY: (301) 504-6856].

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*Proceedings of the American Society for Horticulture Science*. Vol. 36-58, 1938-51.

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**December 8-11: Household Hazardous Waste.** Minneapolis, MN. Contact: Solid Waste Association of America, 612-349-4000.

**December 9-10: Public Cash Management.** San Diego, CA. Contact: Government Finance Officers Association, 202-466-2750.

**December 9-11: Municipal Waste Management Association and Public/Private Recycling Advisory Council.** St. Petersburg, FL. Contact: Judy Sheehan, 202-293-7330.

**December 9-11: Community-Oriented Policing.** Baltimore, MD. Contact: International Association of Chiefs of Police, 1-800-843-4227.

**December 9-12: Intertribal Agriculture Council's Annual Agricultural Conference.** Las Vegas, NV; Bally's Resort. Contact: 202-720-6643.

**December 10: Composting on the Palouse: Needs and Opportunities for Organic Waste Recycling.** Pullman, WA: Washington State University. Contact: Norma Fuentes, 509-335-2921, or David Granatstein, 509-335-3491.

**December 10-12: NACHC's 1992 Health Policy Seminar and Mid-Winter Meeting: Health Centers: Essentials for Survival and Growth in a Depressed Economy.** San Antonio, TX. Contact: National Association of Community Health Centers, Inc., 202-659-8008.

**December 13-14: Alternative Energy Conference: Liquid Fuels from Renewable Resources.** Nashville, TN. Contact: John Cundiff, VPI & SU, Agricultural Engineering Department, Blacksburg, VA 24061.

**December 14-15: Alternate Energy Conference.** Nashville, TN. Contact: Jon Hiler, ASAE, 616-429-0300.

**December 16-18: Managing for Excellence: Leadership and the Quality Improvement Method.** San Bernardino, CA. Contact: International Association of Chiefs of Police, 1-800-843-4227.

### 1993 Events

**January: "Rural Communities: Legacy and Change."** Premiers on Public Television stations in January; Check local listings; 13 1-hour educational programs. For more information and print materials, contact: Annenberg/CPB Project, 901 E Street, NW, Washington, DC 20004. To request a free preview cassette, call 1-800-LEARNER.

**January 4-8 OR March 8-12: Recombinant DNA Methodology.** Washington, DC. Contact: 202-319-6161, FAX: 202-319-4467.

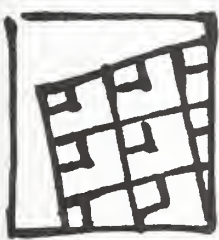
**January 6-10: Aquaculture Expo VI.** New Orleans, LA. Contact: Carroll Trosclair, 800-527-7631 or 504-486-9868, FAX: 504-488-4135.

**January 7-10: Southern Sustainable Agriculture Working Group Marketing Seminar and Winter Meeting.** Raleigh, NC. Contact: Betty Bailey, 919-542-1396.

**January 9-11: Polymerase Chain Reaction in Molecular Biology.** Washington, DC. Contact: 202-319-6161; FAX: 202-319-4467.

**January 9-15: Keystone Symposia on Molecular & Cellular Biology: The Extracellular Matrix of Plants: Molecular, Cellular and Developmental Biology.** Santa Fe, NM. Contact: 303-262-1230.

**January 10-13: Third Primary Care Research Conference, Agency for Health Care Policy and Research, HHS: Challenges in Practice-Based Research.** Atlanta, GA.



## Agriculture Datebook

Meetings included in this list are selected from USDA's *Ag Calendar* and information provided by NAL information centers, federal and state agencies, associations, and interest groups. Normally, items are listed only once, as soon as practical after receipt. Inclusion does not constitute endorsement by NAL or USDA. If you have items for consideration, please send information to:

National Agricultural Library  
ALIN Editor, Room 204  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

**December 8-11: DNA Fingerprinting.** Rockville, MD. Contact: American Type Culture Collection, 301-231-5566; FAX: 301-770-1805.

Contact: 301-229-3002.

**January 10-14: American Farm Bureau Federation Annual Meeting.** Anaheim, CA; Hilton and Towers. Contact: AFBF, 312-399-5700.

**January 10-14: Transportation Research Board 72nd Annual Meeting.** Washington, DC. Contact: 202-334-2934.

**January 11-15: Basic Cell and Tissue Culture.** Washington, DC. Cont: 202-319-6161; FAX: 202-319-4467.

**January 14-15: Consortium on Agricultural & Food Marketing.** Kissimmee, FL. Contact: 202-720-7558.

**January 14-16: NAGC 1992 National Communications School.** Alexandria, VA; Old Colony Inn. Contact: Debbie Trocchi, 703-519-3902.

**January 17-19: U.S. Conference of Mayors Winter Meeting.** Washington, DC. Contact: Thomas Cochran, 202-293-7330.

**January 17-22: Miami Bio/Technology Winter Symposia, Advances in Gene Technology: Protein Engineering and Beyond.** Miami, FL. Contact: Sandra Black, 800-642-4363; FAX: 305-324-5665.

**January 18-20: Mayor's Leadership Institute.** Key West, FL. Contact: Tom McClimon, 202-293-7330.

**January 21-22: National Council for Urban Economic Development Technical Conference.** Scottsdale, AZ. Contact: 202-223-4735.

**January 21-23: Annual Ecological Farming Conference.** Asolimar Conference Center, Monterey, CA. Contact: CSA, 916-346-2777.

**January 24-27: BIOEAST '93.** Washington, D.C. Contact: 301-762-2957.

**January 26-February 1: Keystone Symposia on Molecular & Cellular Biology: Evolution and Plant Development.** Taos, NM. Contact: Keystone Symposia, 303-262-1230.

**January 27-30: 8th Annual National Farm Direct Marketing Conference.** Portland, OR. Cont: 503-229-6113.

**January 27-30: US Chapter of the World Aquaculture Society in conjunction with the South Atlantic Regional Aquaculture Conference and Trade Show.** Hilton Head Island, SC. Contact: Rick DeVoe, 803-727-2078 or Betsy Sheehan, 803-734-2200.

**January 29-30: 8th Annual National Farm Direct Marketing Conference.** Portland, OR; Red Lion Inn, Lloyd Center. Contact: 503-229-6734.

**January 29-30: National Direct Farm Marketing Conference.** Portland, OR; Red Lion Inn, Lloyd Center. Contact: Vance Corum, 503-468-8714.

**January 30-February 3: Southern Association of Agricultural Scientists 90th Annual Meeting.** Tulsa, OK. Contact: Oran Little, 606-257-4772.

**January 31-February 3: National Association of County Engineers Annual Meeting.** San Antonio, TX. Contact: Woodson Martin, 202-393-5041.

**January 31-February 3: South West Transit Association Annual Conference.** Tulsa, OK. Contact: 214-223-6797.

**January 31-February 5: Recombinant DNA Technology II.** Palm Coast, FL. Contact: C.V. Freiman, Engineering Foundation, 345 East 47th St., New York, NY 10017.

**February 1-2: Mid-America Dairymen Directors Conference.** Kansas City, MO. Contact: 202-720-7558.

**February 7-9: National Association of Regional Coun-**

**cils Washington Policy Conference: Regional Councils and the Global Economy.** Washington, Capitol Hill Hyatt Regency. Contact: 202-457-0710.

**February 8-10: Center for Substance Abuse Prevention, HHS: New Dimensions in Prevention: Sharing Today, Shaping Tomorrow.** Washington, DC. Cont: 301-656-3100.

**February 8-12: Molecular & Cellular Biology of Macrophage Activation for Cytotoxicity.** Washington, DC. Contact: 202-319-6161; FAX: 202-319-4467.

**February 8-14: Keystone Symposia on Molecular & Cellular Biology: Genetic and In Vitro Analysis of Cell Compartmentalization.** Taos, NM. Contact: 303-262-1230.

**February 10-12: 4th Annual Southwestern Region Government Technology Conference.** Austin, TX. Contact: Tamara Wilson, 916-363-5000.

**February 10-12: Sea Fare International.** Long Beach, CA. Cont: Janis Dienes, 206-547-6030, FAX: 206-548-9346.

**February 15-20: Agri International.** Bismarck, ND. Contact: Terry Fleck, 701-258-5555.

**February 16-18: Scottish Fish Farming Conference and Exposition.** Glasgow, England. Contact: Peter Landless, FAX: 0285650729.

**February 18-19: Seventh Annual Virginia Conference on Sustainable Agriculture.** Omni Hotel, Charlottesville, VA. Contact: 703-231-5182.

**February 18-20: Mayor's Leadership Institute.** Key West, FL. Contact: Tom McClimon, 202-293-7330.

**February 18-21: 10th Annual International Symposium on Coal Ash Use and Disposal.** Orlando, FL. Contact: American Coal Ash Association, 202-659-2303.

**February 19-22: NAHB Annual Convention.** Las Vegas, NV. Contact: 202-822-0220.

**February 21-23: Corn Classic.** San Antonio, TX. Contact: Harriet Naert, 314-275-9915.

**February 21-23: United Fresh Fruit and Vegetable Association 89th Annual Convention.** San Diego, CA; Convention Center. Contact: 703-836-3410.

**February 21-24: Agricultural Research to Protect Water Quality Conference.** Minneapolis, MN. Contact: SWCS, 1-800-THE SOIL or 515-289-2331.

**February 22-26: Recombinant DNA: Techniques and Applications.** Rockville, MD. Contact: 301-231-5566; FAX: 301-770-1805.

**February 23-25: Integrating Recycling — Priority One!** Ramada Palm Beaches Resort, West Palm Beach, FL. Contact: Gil Matar, 301-585-2898.

**February 23-March 1: Keystone Symposia on Molecular & Cellular Biology: Nucleases: Structure, Function and Biological Roles.** Tamarron, CO. Contact: 303-262-1230.

**February 25-28: Catfish Farmers of America.** New Orleans, LA. Contact: Hugh Warren, 601-887-2699, FAX: 601-887-4409.

**February 25-28: International Disaster Management Conference: Disaster '93.** Orlando, FL. Contact: Florida Emergency Medicine Foundation, 1-800-766-6335.

**March 2-5: Polymerase Chain Reaction (PCR) Applications/Cycle DNA Sequencing.** Rockville, MD. Contact: 301-231-5566; FAX: 301-770-1805.

**March 4-7: American Society for Environmental History: City and County: Contrasting and Interacting Environment.** Pittsburgh, PA. Cont: Joel Tarr, 412-268-2830.



**March 6-7: Threads of Hope, Harvesting Our Potential: Rural Women's Educational Gathering.** Howard Johnson Hotel, Des Moines, IA. Contact: 515-244-5671.

**March 7-14: Keystone Symposia on Molecular & Cellular Biology: Frontiers of NMR in Molecular Biology-III.** Taos, NM. Contact: 303-262-1230.

**March 8-12 (See also January 4-8): Recombinant DNA Methodology.** Washington, DC. Contact: 202-319-6161, FAX: 202-319-4467.

**March 16-18: International Boston Seafood Show.** Boston, MA. Contact: 207-772-3005.

**March 16-19: Insect Cell Culture.** Rockville, MD. Contact: 301-231-5566; FAX: 301-770-1805.

**March 17-19: Rural Nonpoint Source Pollution in the Upper Midwest: Exploring Local-Level Initiatives and Effective Partnerships.** Midway Hotel, La Crosse, WI. Contact: Linda Schroeder, 612-972-3908.

**March 23-25: 16th Annual Landfill Gas Symposium.** The Galt House, Louisville, KY. Call for Papers: November 16, 1992. Contact: Dawn Campbell, 301-585-2898.

**March 24-28: American Road and Transportation Builders Association Convention.** San Diego, CA. Contact: 202-488-2722.

**March 25-27: 2nd National Conference: Creating the Quality School.** Holiday Inn Airport West, Oklahoma City, OK. Call for Papers: January 14, 1993. Contact: Dr. Edward W. Chance, University of Oklahoma, Center for the Study of Small/Rural Schools; 405-325-1450.

**March 25-27: Western States Meat Association's Annual Convention and Expo.** Reno, NV. Cont: 510-763-1533.

**March 25-30: 39th Annual Meeting of the American Society of Aging.** Chicago, IL. Contact: 415-882-2910.

**March 28-31: International Animal Transportation Association (AATA) Conference.** New Orleans, LA. Contact: Millie Woolf, 813-879-3210.

**March 29-April 2: Intertribal Timber Council Annual Symposium.** Eureka, CA; Hosted by Hoopa Valley Tribe. Contact: 202-720-6643.

**March 31-April 2: Municipal Waste Management Association and Public/Private Recycling Advisory Council.** Washington, DC. Contact: Judy Sheehan, 202-293-7330.

**April 1-4: National Science Teachers Association National Convention.** Kansas City, MO. Contact: NSTA, 202-328-0974.

**April 5-9: Soil Symposium on Greenhouse Gas Emissions and Carbon Sequestration.** Columbus, OH; Ohio State University, Fawcett Center for Tomorrow. Contact: 703-235-9018; FAX 703-235-9046.

**April 10: Investing in Freshwater Aquaculture Teleconference.** Uplinked from Purdue University and Auburn University. Contact: LaDon Swann, 317-494-6264 or John Jensen, 205-844-9211.

**April 13-15: 9th Annual Southwestern Regional Symposium.** Sante Fe, NM. Contact: 301-585-2898.

**April 15-17: 7th Annual Conference on the Political Economy of the World System: Food and Agricultural Systems in the World Economy.** Cornell University, Ithaca, NY. Cont: Philip McMichael, 607-255-5495; FAX 607-255-9984.

**April 16-17: 5th Annual Rural Nursing Conference: Opportunities and Rewards in Rural Nursing.** Greeley, CO. University of Northern Colorado School of Nursing. Con-

tact: 303-351-2293.

**April 17-21: National Council on the Aging 43rd Annual Conference.** Anaheim, CA. Contact: 202-479-6994.

**April 18-21: National Council for Urban Economic Development Annual Conference.** Washington, DC. Contact: 202-223-4735.

**April 20-22: European Seafood Exposition.** Brussels, Belgium. Contact: Tom Repeta 207-772-3005; FAX: 207-772-5059.

**April 21-23: Joseph F. Morgan Research Foundation, Current Trends: "In Vitro Skin Toxicology and Eye Irritancy Testing."** Ottawa, Ontario, Canada. Contact: 613-594-8226.

**April 21-24: Western Social Science Association 35th Annual Meeting of the Agricultural Studies Section.** Corpus Christi, TX. Contact: Joseph Fitzharris, 612-647-5667.

**April 22-27: International Pectinid Workshop.** Nanaimo, BC Canada. Contact: Neil Bourne, 604-7567037.

**April 27-29: Solid Waste Association of North America (SWANA), the Integrated Waste Services Association, and the American Society of Mechanical Engineers "North American Waste-to-Energy Symposium."** Islip, NY; Airport Holiday Inn. Contact: Dawn Campbell, 301-585-2898.

**April 28-30: 5th International Symposium of Cooperative Managers.** Cannes, France. Contact: 202-720-7558.

**April 30-May 1: Leadership in Consumer Literacy: Reaching the New Global Market.** Washington, DC. Contact: NCCE, 201-635-1916.

**April 30-May 3. International Association of Fairs and Expositions (IAFE) 25th Annual Spring Conference.** West Springfield, MA; Marriott. Contact: 417-862-5771.

**May 3-7: 1993 Migrant Health and Migrant Clinical Issues Conference.** Denver, CO. Contact: NACHC, 202-659-8008.

**May 8-12: Agricultural Communicators in Education (ACE) Annual International Meeting.** Miami, FL; Hotel Intercontinental on Biscayne Bay. Contact: Donald Poucher, 904-392-0437 or Thomas R. Hintz, 904-392-5180.

**May 9-13: 1993 National Conference on Migrant and Seasonal Workers.** Denver, CO. Contact: JoAnne Orijel or Alayne Walker, NACHC, 202-659-8008.

**May 12-15: NRHA 16th Annual National Conference.** Kansas City, MO. Contact: NRHA, 816-756-3140.

**May 16-19: Seafood Europe.** Utrecht, Netherlands. Contact: Charlotte Hawkins, FAX: 44718378187.

**May 18-21: Community Transportation Expo '93.** Austin, TX. Contact: Charles Dickson, CTAA, 202-628-1480.

**May 26-28: World Aquaculture '93.** Torremolinos, Spain. Contact: European Aquaculture Society Secretariat, 3291237722; FAX: 3291237604.

**May 20-22: National Association of Regional Councils 27th Annual Conference and Exhibition.** Portland, OR; Hilton. Contact: NARC, 202-457-0710.

**June 19-24: Association for Living Historical Farms and Agricultural Museums Annual Meeting and Conference: "Of Media and Messages".** St. Paul, MN; Minnesota Historical Society. Contact: ALHFAM, 313-487-3984.

**June 21-23: Aquaculture Engineering: An International Conference of Engineering Techniques for Modern Aquaculture.** Spokane, WA. Contact: Paul Piedrahita, 976-752-2780; FAX: 916-752-2640.



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## NAL EEO & Cultural Heritage Programs

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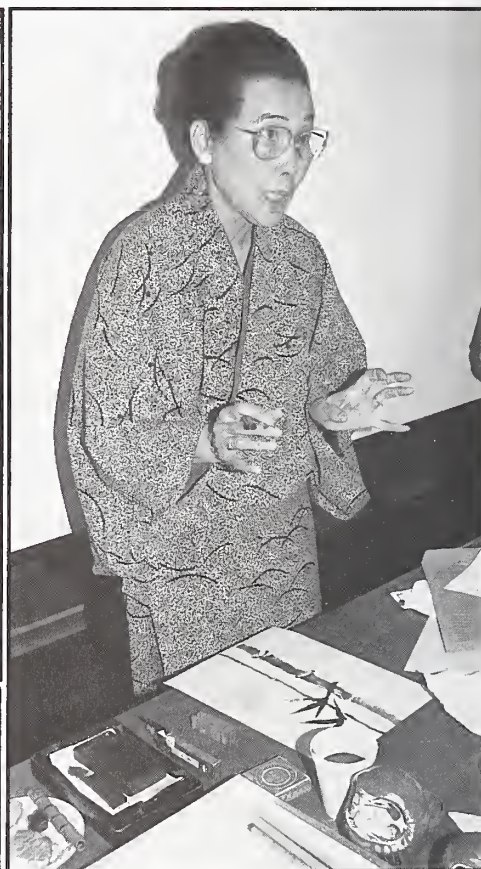
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photos: J. Swab

Connie Tomita Galmeijer, Professor of Japanese at the University of Maryland, demonstrates "The Art of Asian Calligraphy" and ink painting at one of the NAL Asian/Pacific American Heritage Month programs. The pair of Indonesian puppets, **wayang golek**, were loaned to the NAL exhibit for the month. For more on NAL's EEO and cultural heritage activities, see pages 1 and 17-21 of this issue of ALIN.

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